SAMSUNG

MICRO COMPONENT SYSTEM

MM-J5

SERVICE Manual

MICRO COMPONENT SYSTEM

CONTENTS

1. Alignment and Adjustments

2. Exploded Views and Parts List

3. Electrical Parts List

4. Block Diagrams

5. Wiring Diagram

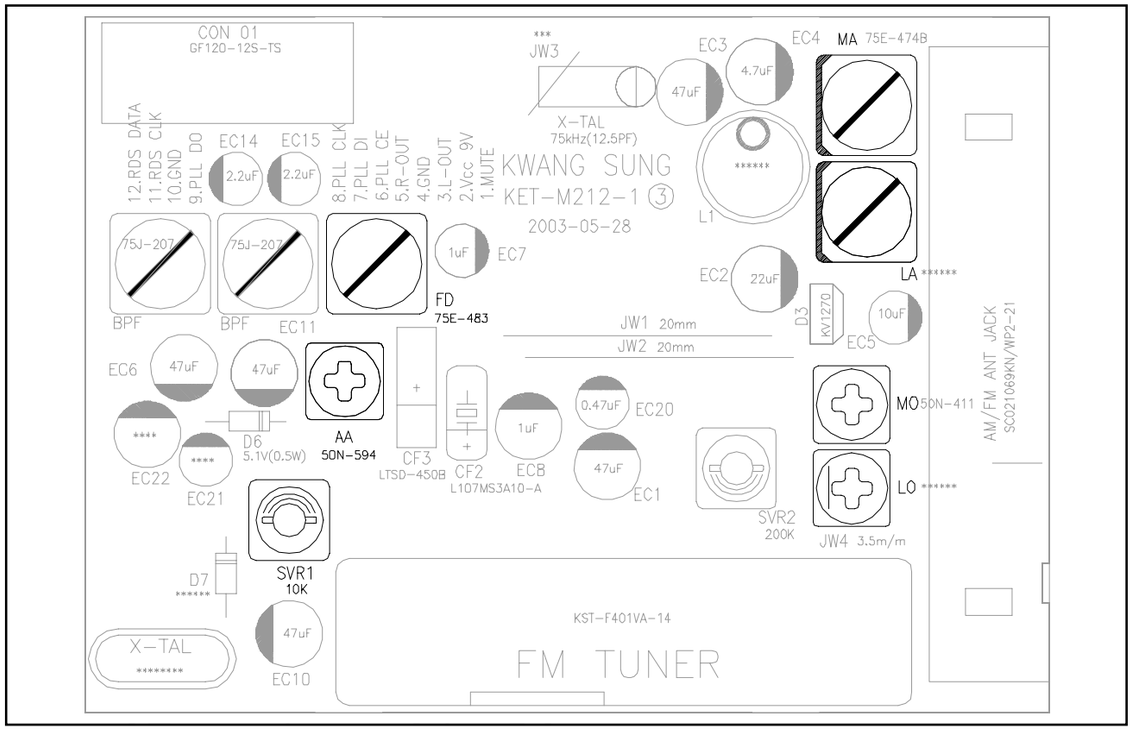
6. Schematic Diagrams

- Confidential -

Notice !! You can search for the updated part code through ITSELF web site.
URL; http://itself.sec.samsung.co.kr

1. Alignment and Adjustments

1-1. Tuner



* Adjustment Location of Tuner PCB

ITEAM	AM(MW) OSC Adjustment	AM(MW) RF Adjustment	LW OSC Adjustment	LW RF Adjustment
Received FREQ.	522~1611 KHz	594 KHz	146~290 KHz	150 KHz
Adjustment point	MO	MA	LO	LA
Output	1~7.0±0.5V	Maximum Output(Fig1-4)	2~7.0±0.5V	Maximum Output(Fig1-4)

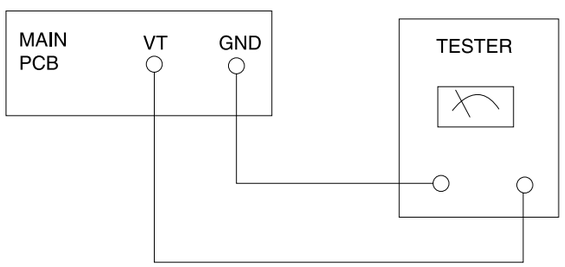


Fig 1-4 OSC Voltage

FM THD Adjustment	
SSG FREQ.	98 MHz
Adjustment point (FM DET)	FD
Output	60 dB
Minumum Distortion (0.4% below) (Figure 1-1)	

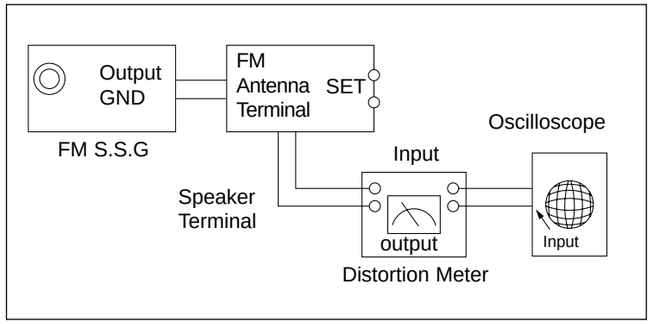


Figure1-1 IF CENTER and THD Adjustment

FM Search Level Adjustment	
SSG FREQ.	98 MHz
Adjustment point (SVR1)	SVR1 (10KΩ)
Output	28 dB(±2dB)
Adjust SVR1 so that “TUNED” of LCD is lighted (Figure 1-2)	

*Adjust FM S.S.G level to 28dB

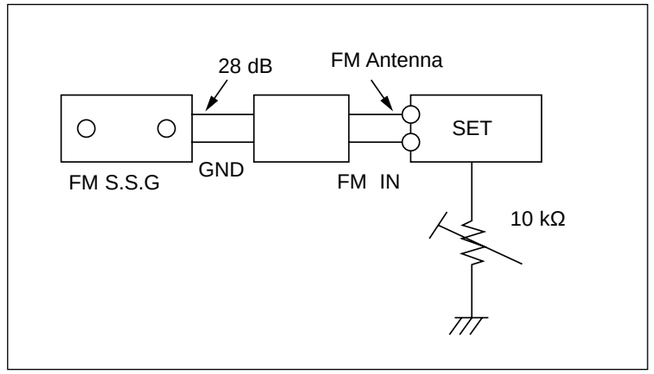


Figure1-2 FM Auto Search Level Adjustment

AM(MW) I.F Adjustment	
SSG FREQ.	450 kHz
Frequency	522 kHz
Adjustment point	AA
Maximum output (Figure 1-3)	

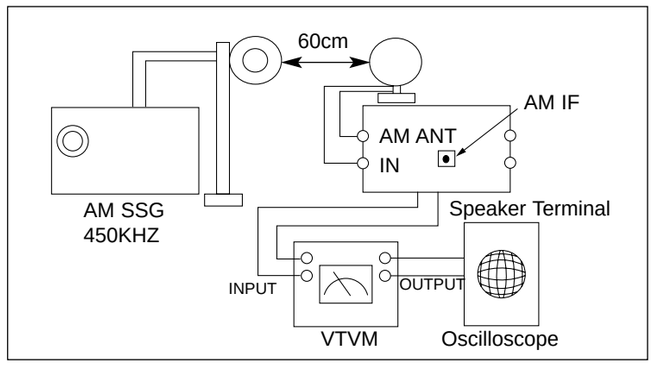


Figure1-3 AM I.F Adjustment

2. Cassette Deck

2-1. To Adjust Tape Speed

Notes

1) Measuring tape: i) MTT-111 (or equivalent)
(Tapes recorded with 3kHz)
ii) MTT-5512 (or equivalent)
2) Connect the SPK OUT of the MAIN PCB to the frequency counter as in figure 1-5.

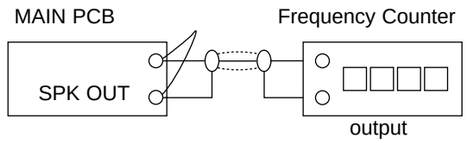


Figure 1-5

Step	Item	Pre-Setup Condition	Pre-Setup	To Adjust	Standard	Remark
1	NOR SPEED Control	SPK OUT (connected to the frequency counter)	1) Deck :MTT-111 2) Press PLAY SW button	Fixed	3KHz	±1% range

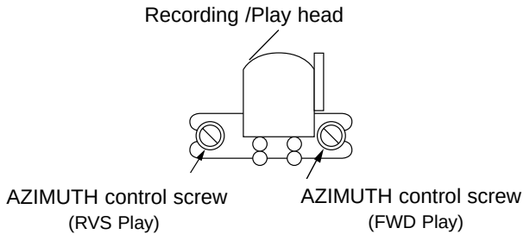


Figure 1-6

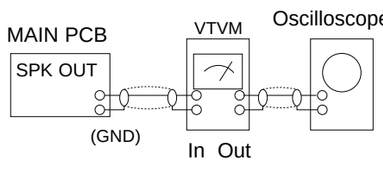


Figure 1-7

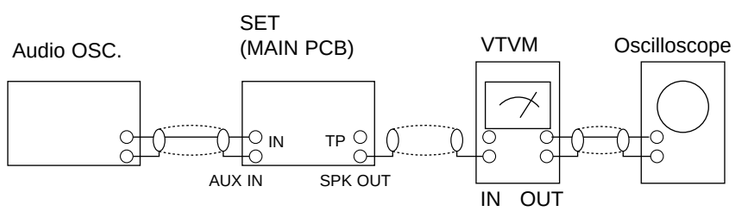


Figure 1-8

2-2. To Adjust PlayBack Level/REC

Notes

1) Before the actual adjustment, clean the play/recording head.
2) Measuring tape :
i) MTT-114N(or equivalent 10kHz AZIMUTH control)
ii) MTT-5512
3) The cassette deck is connections as shown in figure 1-7.

1. Adjust Deck 1 Play Level

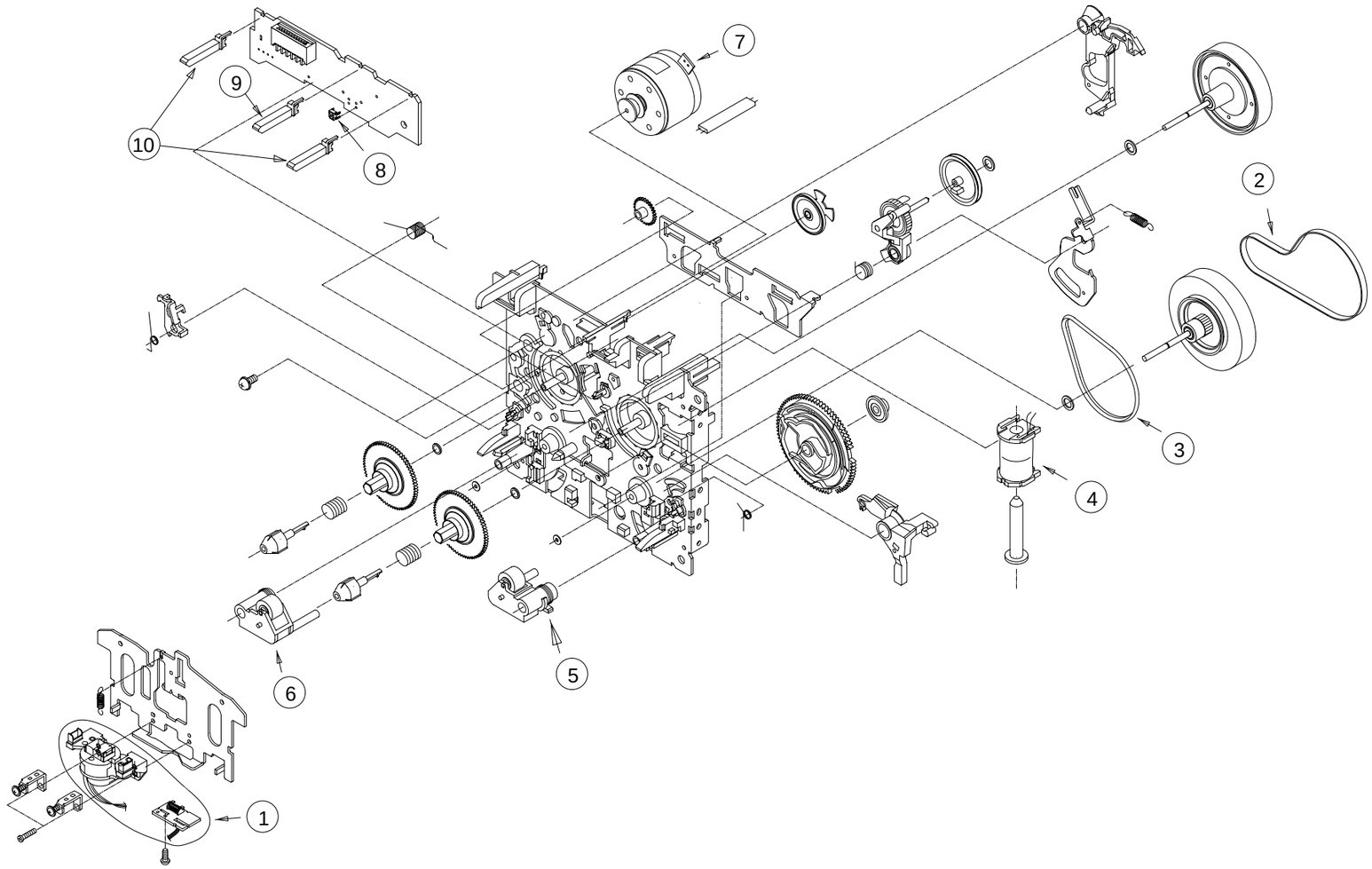
Step	Item	Pre-Setup Condition	Pre-Setup	To Adjust	Standard	Remark
1	AZIMUTH	SPK OUT (VTVM is connected to the scope)	After putting MTT-114N into Deck 1 - Press FWD PLAY button.	- Turn the control screw to as shown in Figure 1-6.	Max output and same phase (both channels)	After adjustment secure it with REGION LOCK.

2. Adjust Deck 2 Play Level/ REC BIAS

Step	Item	Pre-Setup Condition	Pre-Setup	To Adjust	Standard	Remark
1	AZIMUTH	SPK OUT (VTVM is connected to the scope)	After putting MTT-114N into Deck 2 - Press FWD PLAY button.	- Turn the control screw to as shown in Figure 1-6.	MAX OUTPUT and same phase (both channels)	After adjustment secure it with REGION LOCK.
2	Recording Bias Voltage	Fig 1-8	After putting MTT-5512 into Deck 2 1) Press REC PLAY button. 2) TAPE PCB JCW3 ,connected to VTVM	- Turn JSR2L,JSR2R to the right and left	CHECK TO 7mV(±0.5mV)	

2.Exploded Views and Parts List

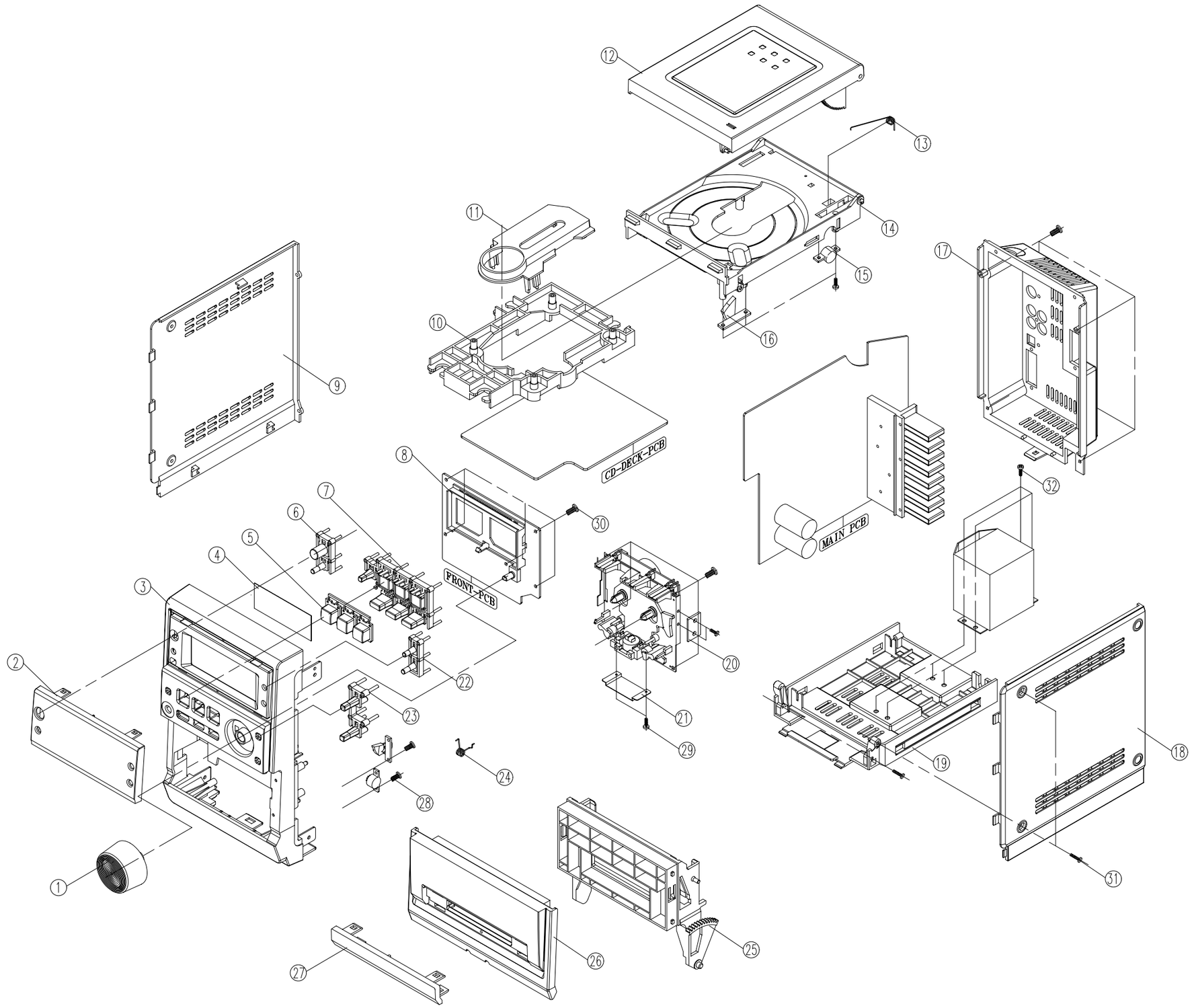
2-1 Cassette Deck (OPTION)



No.	Code No.	Description	Specification	Remarks
	AH59-01267A	**DECK -CASSETTE**	**CMAL1Z230A**	**A/REV.**
1	AH81-00543A	R/P HEAD ASS'Y	HADKH5655A	F513-853
2	AH81-00733A	MAIN BELT	MAIN BELT	
3	AH81-00543C	F/R BELT	FF19S-31	FF19S-31
4	AH81-00543D	SOLENOID	F765-292	F765-292
5	AH81-00543E	ROLLER PINCH BLK R	F514-129	F514-129
6	AH81-00543F	ROLLER PINCH BLK L	F514-130	F514-130
7	AH81-01356A	MOTOR	CCM09-120L2-6	
8	AH81-00543H	REEL SENSOR	SG-107F3;KODENSHI	
9	AH81-00543J	LEAF S/W - WHITE	SPLFF	
10	AH81-00543K	LEAF S/W - BLK	SPLFE1	

No.	Code No.	Description	Specification	Remarks
	AH59-01272A	**DECK -CASSETTE**	**CMAL1Z230A**	**A/STOP**
1	AH81-01386A	R/P HEAD ASS'Y	HADKH5655A	F513-853
2	AH81-01385A	MAIN BELT	MAIN BELT	
3	AH81-00543C	F/R BELT	FF19S-31	FF19S-31
4	AH81-00543D	SOLENOID	F765-292	F765-292
5	AH81-00543E	ROLLER PINCH BLK R	F514-129	F514-129
7	AH81-01356A	MOTOR	CCM09-120L2-6	
8	AH81-00543H	REEL SENSOR	SG-107F3;KODENSHI	
9	AH81-00543J	LEAF S/W - WHITE	SPLFF	
10	AH81-00543K	LEAF S/W - BLK	SPLFE1	

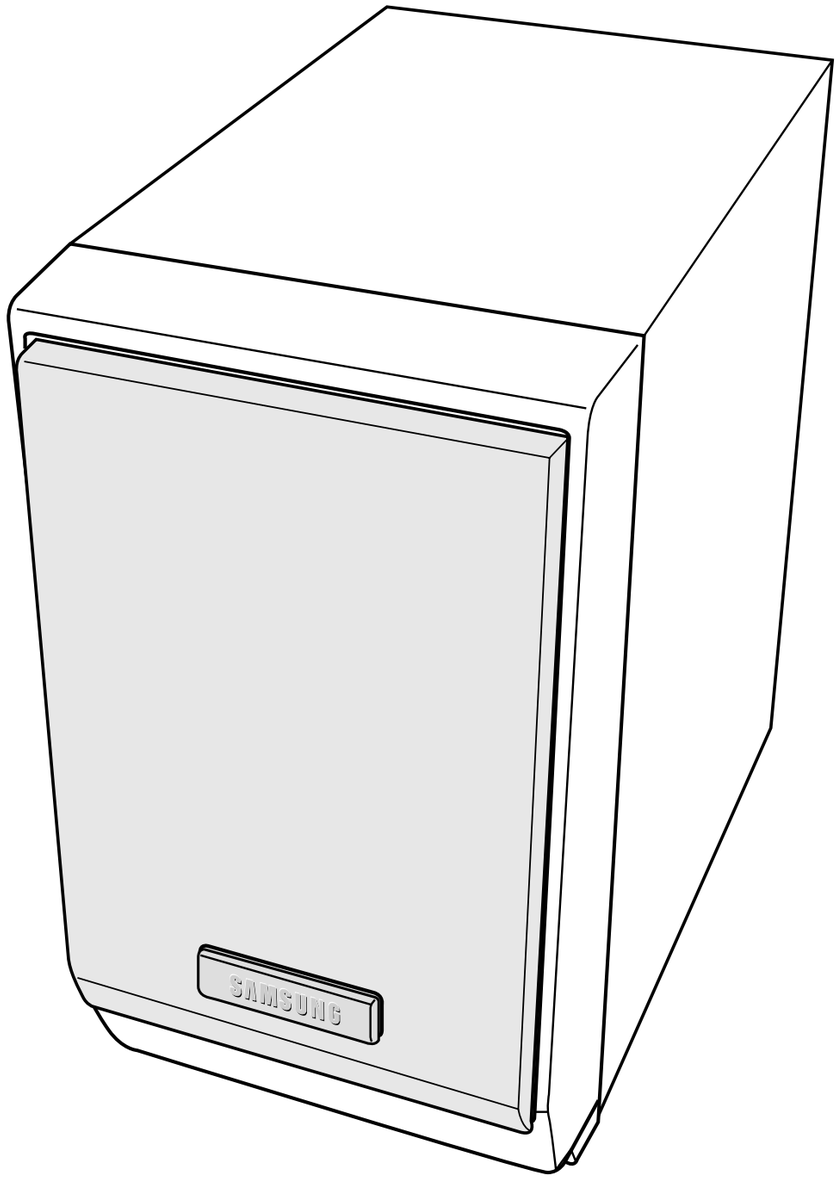
2-2 Total Exploded View and Parts List



NO	PART NAME	CODE NO.	Q'TY	REMARK
1	KNOB-VOLUME	AH64-02959B	1	
2	WINDOW-VFD	AH64-02952B	1	
3	CABINET-FRANT	AH64-02951B	1	
4	SHEET-VFD	AH63-00764A	1	
5	LENS-FUNCTION	AH67-00287B	1	
6	KNOB-POWER	AH64-02955B	1	
7	KNOB-FUNCTION	AH64-02957B	1	
8	HOLDER-VFD	AH61-01416A	1	
9	CABINET-SIDE L	AH64-02653A	1	
10	HOLDER-CD	AH61-01417A	1	
11	CAP-PU	AH61-20529A	1	
12	DOOR-CD	AH64-02960B	1	
13	SPRING-CD	AH61-01149A	1	
14	CABINET-TOP	AH64-02655A	1	
15	DAMPER-ASS'Y	AH61-80030A	2	
16	LATCH-ASS'Y	AH95-50001A	2	
17	CABINET-REAR	AH64-02650B	1	
18	CABINET-SIDE R	AH64-02654A	1	
19	CABINET-BOTTOM	AH64-02652A	1	
20	HOLDER-DECK	AH61-01559A	1	
21	BRACKET-DECK	AH61-01533A	1	AUTO REVERSE
22	KNOB-REPEAT	AH64-02956A	1	
23	KNOB-EQ	AH64-02958B	1	
24	SPRING-DECK	AH61-01448A	1	
25	HOLDER-CASS	AH61-01613A	1	
26	DOOR-CASS	AH64-02953B	1	
27	WINDOW-CASS	AH64-02954A	1	
28	SCREW M3*12 YEL	6003-000277	5	
29	SCREW M2.6*8 YEL	AH60-10020D	4	
30	SCREW M3*10 YEL	6003-000276	20	
31	SCREW M3*10 BLK	6003-000275	15	
32	SCREW M4*12 BLK	6002-000410	4	

2-3 SPEAKER Exploded View and Parts list

* CAUTION : It is used the bonding, connect FRONT PANEL to CABINET WOODEN.
So when the disassembly, take extreme care not to damage the SPEAKER.



PSJ5 SPK (LEFT) : AH81-01453A

PSJ5 SPK (RIGHT) : AH81-01453B

3. Electrical Parts List

*S.N.A. : Service Not Available

Location no.	Code no.	Description & Specification	Remarks
	AH26-00292A	TRANS POWER;-,MM-J4,-,-,115/230V,-,-,-,6	
	AH39-00320B	CBF COAXIAL CABLE;MAX-L68,110REC,-,1007#	
	AH39-50030D	WIRE HARNESS;RING/REC,200mm,1007#24,BLK	
	AH42-20001P	ANT LOOP;-,KS971120-01,18.5UH##10%,-	
	AH59-01159F	REMOCON;MM-J4,SAMSUNG,-,-,28KEY,-,-,-	
	AH39-00257E	POWER CORD;KOR,-,CP2,250V,3A,1830MM/300M	KOREA
	AH39-00257A	POWER CORD;KOR,-,CP2,250V,3A,1830MM/300M	EXP
	AH40-00050B	TUNER-PACK ASSY;KST-MJ111MS0-60,FM/MW,-,	KOREA
	AH40-00043A	TUNER-PACK ASSY;FM/MW/LW,RDS,FM87.5~108.0MHz	EUROPE(RDS)
	AH40-00042A	TUNER-PACK ASSY;FM/MW/LW,RDS,FM64~108.0MHz	CIS(RDS)
	AH40-00044A	TUNER-PACK ASSY;FM/MW,MW520~1720KHz	ASIA(T-BAND)
	AH40-00045A	TUNER-PACK ASSY;FM/MW/LW,FM64~108.0MHz	CIS(NO RDS)
	AH40-00046A	TUNER-PACK ASSY;FM/MW/LW,FM87.5~108.0MHz	LW BAND
	AH40-00049A	TUNER-PACK ASSY;FM/MW/SW1/SW2	SW BAND
	AH59-01083D	DECK-CD PACK MECHA ASS'Y;-,MM-J6,-,-,-	
	3409-001078	SWITCH-LEAF;16Vdc,500mA,10gf,SPST	
	3809-001554	CABLE-FLAT;30V,80C,85MM,16P,1MM,UL20696	
	6003-001210	SCREW-TAPTITE;PWH,+,B,M2.6,L6.0,ZPC(BLK)	
	AH61-01417A	CASE-TOP;MCD-CM600,PC CLEAR,-,-,-,-,PAC	
	AH61-20529A	CAP-PICK UP;RCD380,ABS,-,-,-,BLK,-	
	AH61-22002A	HOLDER-PCB;DVC-650S,NYLON 66,-,-,-,-,OD3	
	AH62-30047A	HEAT SINK;ETHD,-,T0.5,-,-,-,MAX-555,-	
	AH73-00010A	RUBBER---HOLDER;BUTYLENE,-,S-2000,-	
	AH73-00025B	RUBBER-CD;CMS-D100,BUTYL 15,-,-,-,-,-,-,	
	AH59-01082A	DECK-CDP;CMS-P31BG6,MM-B7,BALL,-,-,S0H-	
	AH30-00037A	PICK UP;SOH-AAU(1H20L),-,-,-,100*80*45	
	AH92-01561C	**ASSY PCB-CD(ONLY);MM-J6,G3HI-1CD/CDP,3.5**	
R502L	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
C302	2401-001895	C-AL;100uF,20%,16V,GP,TP,6.3x11,2.5	
C215	2401-001934	C-AL;220uF,20%,6.3V,GP,-,6.3x7,-	
X201	2802-000211	RESONATOR-CERAMIC;16.93MHz,0.5%,TP,10.0x	
CW105	3708-000189	CONNECTOR-FPC/FFC/PIC;17P,1.25MM,ANGLE,S	
CW101	3708-001388	CONNECTOR-FPC/FFC/PIC;16P,1MM,ANGLE,SN,N	
CW103	3711-000826	CONNECTOR-HEADER;BOX,2P,1R,2mm,ANGLE,SN	
CW102	3711-000906	CONNECTOR-HEADER;BOX,3P,1R,2mm,ANGLE,SN	
CW106	3711-001136	CONNECTOR-HEADER;BOX,8P,1R,2mm,ANGLE,SN	
GND1	AH39-00293A	CONNECT WIRE;RCA300,1007#26,-,1P,200MM,W	
ZD301	0403-000344	DIODE-ZENER;UZ3.9B,3.7-4.1V,500MW,DO-35,	
Q302	0501-000010	TR-SMALL SIGNAL;KSC1008,NPN,800mW,TO-92,	
Q101	0501-000314	TR-SMALL SIGNAL;KSA812,PNP,150mW,SOT-23,	
Q301	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO-92L,	
IC201	0904-001524	IC-DSP;5L9290,-,QFP,48P,472MIL,16.934	
IC301	1003-000179	IC-MOTOR DRIVER;KA9258D,SOP,28P,-,SINGLE	
IC101	1204-001799	IC-ASP;KB9226,LQFP,48P,393MIL,PLASTIC	
R805	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R804	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R213	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R205	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R211	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R212	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R206	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R803	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R806	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R302	2001-001006	R-CARBON;82OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R114	2007-000001	R-CHIP;68Kohm,5%,1/8W,TP,2012	
J43	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
J44	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
J46	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
JW11	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
JW24	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
J42	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
J18	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
J20	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
J35	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
J36	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
J41	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
J3	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
J25	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
J24	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
J23	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
J22	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
J4	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
J9	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
J8	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
J7	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
J6	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
J5	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
J15	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
J13	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
J12	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
J10	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
J1	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
J16	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
J20	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	

Location no.	Code no.	Description & Specification	Remarks
J2	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
J19	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
J18	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
J17	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
R501L	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
R501R	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
R502R	2007-000290	R-CHIP;100ohm,5%,1/8W,TP,2012	
R132	2007-000300	R-CHIP;10Kohm,5%,1/8W,TP,2012	
R133	2007-000300	R-CHIP;10Kohm,5%,1/8W,TP,2012	
R108	2007-000308	R-CHIP;10ohm,5%,1/8W,TP,2012	
R124	2007-000338	R-CHIP;120Kohm,5%,1/8W,TP,2012	
R125	2007-000338	R-CHIP;120Kohm,5%,1/8W,TP,2012	
R117	2007-000355	R-CHIP;12Kohm,5%,1/8W,TP,2012	
R121	2007-000409	R-CHIP;15Kohm,5%,1/8W,TP,2012	
R113	2007-000444	R-CHIP;180Kohm,5%,1/8W,TP,2012	
R110	2007-000457	R-CHIP;18Kohm,5%,1/8W,TP,2012	
R209	2007-000468	R-CHIP;1Kohm,5%,1/8W,TP,2012	
R118	2007-000477	R-CHIP;1Mohm,5%,1/8W,TP,2012	
R202	2007-000477	R-CHIP;1Mohm,5%,1/8W,TP,2012	
R303	2007-000502	R-CHIP;2.2ohm,5%,1/8W,TP,2012	
R116	2007-000546	R-CHIP;20Kohm,5%,1/8W,TP,2012	
R210	2007-000572	R-CHIP;220ohm,5%,1/8W,TP,2012	
R208	2007-000572	R-CHIP;220ohm,5%,1/8W,TP,2012	
R207	2007-000572	R-CHIP;220ohm,5%,1/8W,TP,2012	
R204	2007-000572	R-CHIP;220ohm,5%,1/8W,TP,2012	
R128	2007-000653	R-CHIP;27Kohm,5%,1/8W,TP,2012	
DR2	2007-000872	R-CHIP;4.7Kohm,5%,1/8W,TP,2012	
DR1	2007-000872	R-CHIP;4.7Kohm,5%,1/8W,TP,2012	
R129	2007-000941	R-CHIP;47Kohm,5%,1/8W,TP,2012	
R123	2007-000941	R-CHIP;47Kohm,5%,1/8W,TP,2012	
R101	2007-001039	R-CHIP;56Kohm,5%,1/8W,TP,2012	
R102	2007-001039	R-CHIP;56Kohm,5%,1/8W,TP,2012	
R103	2007-001039	R-CHIP;56Kohm,5%,1/8W,TP,2012	
R104	2007-001039	R-CHIP;56Kohm,5%,1/8W,TP,2012	
R120	2007-001039	R-CHIP;56Kohm,5%,1/8W,TP,2012	
R126	2007-001039	R-CHIP;56Kohm,5%,1/8W,TP,2012	
R115	2007-001177	R-CHIP;8.2Kohm,5%,1/8W,TP,2012	
R112	2007-001195	R-CHIP;820Kohm,5%,1/8W,TP,2012	
R105	2007-001208	R-CHIP;82Kohm,5%,1/8W,TP,2012	
R106	2007-001208	R-CHIP;82Kohm,5%,1/8W,TP,2012	
R119	2007-001208	R-CHIP;82Kohm,5%,1/8W,TP,2012	
R127	2007-001208	R-CHIP;82Kohm,5%,1/8W,TP,2012	
R107	2007-001216	R-CHIP;82ohm,5%,1/8W,TP,2012	
R301	2008-000140	R-FUSIBLE;2.2ohm,5%,1/2W,AA,TP,3.5x9.4mm	
C205	2203-000203	C-CER,CHIP;100nF,10%,16V,X7R,TP,2012,2mm	
C211	2203-000203	C-CER,CHIP;100nF,10%,16V,X7R,TP,2012,2mm	
C213	2203-000203	C-CER,CHIP;100nF,10%,16V,X7R,TP,2012,2mm	
C216	2203-000203	C-CER,CHIP;100nF,10%,16V,X7R,TP,2012,2mm	
C218	2203-000203	C-CER,CHIP;100nF,10%,16V,X7R,TP,2012,2mm	
C220	2203-000203	C-CER,CHIP;100nF,10%,16V,X7R,TP,2012,2mm	
C402	2203-000203	C-CER,CHIP;100nF,10%,16V,X7R,TP,2012,2mm	
C204	2203-000203	C-CER,CHIP;100nF,10%,16V,X7R,TP,2012,2mm	
C115	2203-000203	C-CER,CHIP;100nF,10%,16V,X7R,TP,2012,2mm	
C116	2203-000203	C-CER,CHIP;100nF,10%,16V,X7R,TP,2012,2mm	
C118	2203-000203	C-CER,CHIP;100nF,10%,16V,X7R,TP,2012,2mm	
C124	2203-000203	C-CER,CHIP;100nF,10%,16V,X7R,TP,2012,2mm	
C129	2203-000203	C-CER,CHIP;100nF,10%,16V,X7R,TP,2012,2mm	
C130	2203-000203	C-CER,CHIP;100nF,10%,16V,X7R,TP,2012,2mm	
C132	2203-000203	C-CER,CHIP;100nF,10%,16V,X7R,TP,2012,2mm	
C103	2203-000260	C-CER,CHIP;10nF,10%,50V,X7R,TP,2012	
C121	2203-000260	C-CER,CHIP;10nF,10%,50V,X7R,TP,2012	
C134	2203-000260	C-CER,CHIP;10nF,10%,50V,X7R,TP,2012	
C207	2203-000260	C-CER,CHIP;10nF,10%,50V,X7R,TP,2012	
C401	2203-000260	C-CER,CHIP;10nF,10%,50V,X7R,TP,2012	
C124	2203-000347	C-CER,CHIP;150NF,10%,50V,C0G,TP,2012	
JW9<->JW1	2203-000477	C-CER,CHIP;1000NF,+80-20%,16V,Y5V,TP,201	
C126	2203-000495	C-CER,CHIP;2.2nF,10%,50V,X7R,TP,2012	
C127	2203-000595	C-CER,CHIP;0.22NF,5%,50V,C0G,TP,2012	
EC1	2203-000595	C-CER,CHIP;0.22NF,5%,50V,C0G,TP,2012	
C105	2203-000609	C-CER,CHIP;22nF,10%,50V,X7R,TP,2012	
C128	2203-000802	C-CER,CHIP;33nF,10%,50V,X7R,TP,2012	
C119	2203-000802	C-CER,CHIP;33nF,10%,50V,X7R,TP,2012	
C125	2203-000840	C-CER,CHIP;0.39NF,5%,50V,C0G,TP,2012	
C208	2203-000858	C-CER,CHIP;0.039NF,5%,50V,C0G,TP,2012	
C111	2203-000892	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,2012	
C112	2203-000892	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,2012	
C135	2203-000919	C-CER,CHIP;470nF,+80-20%,16V,Y5V,TP,2012	
C120	2203-000919	C-CER,CHIP;470nF,+80-20%,16V,Y5V,TP,2012	
C109	2203-001026	C-CER,CHIP;0.004nF,0.25pF,50V,SL,TP,2012	
C124A	2203-001063	C-CER,CHIP;56nF,10%,16V,X7R,TP,1608,-	
C106	2203-001137	C-CER,CHIP;68nF,+80-20%,50V,Y5V,TP,2012,	
C122	2203-001137	C-CER,CHIP;68nF,+80-20%,50V,Y5V,TP,2012,	
C203	2203-001223	C-CER,CHIP;0.82nF,10%,50V,X7R,TP,2012	
C502R	2203-001537	C-CER,CHIP;1nF,10%,50V,X7R,TP,2012	
C502L	2203-001537	C-CER,CHIP;1nF,10%,50V,X7R,TP,2012	
C117	2203-001537	C-CER,CHIP;1nF,10%,50V,X7R,TP,2012	
C102	2203-001537	C-CER,CHIP;1nF,10%,50V,X7R,TP,2012	
C104	2203-001551	C-CER,CHIP;1.5nF,10%,50V,X7R,TP,2012	
C202	2203-001619	C-CER,CHIP;0.027nF,5%,50V,NP0,TP,2012	

Location no.	Code no.	Description & Specification	Remarks
C201	2203-001619	C-CER,CHIP;0.027nF,5%,50V,NP0,TP,2012	
C123	2401-000407	C-AL;10UF,20%,16V,GP,TP,3.5X5,2.5	
C303	2401-001102	C-AL;330uF,20%,16V,GP,TP,8x11.5mm,5	
C301	2401-001102	C-AL;330uF,20%,16V,GP,TP,8x11.5mm,5	
C501R	2401-001238	C-AL;4.7uF,20%,25V,GP,BK,3x5,1mm	
C501L	2401-001238	C-AL;4.7uF,20%,25V,GP,BK,3x5,1mm	
C114	2401-001238	C-AL;4.7uF,20%,25V,GP,BK,3x5,1mm	
C212	2401-001502	C-AL;47uF,20%,16V,GP,TP,6.3x5,2.5	
C133	2401-001502	C-AL;47uF,20%,16V,GP,TP,6.3x5,2.5	
C210	2401-001934	C-AL;220uF,20%,6.3V,GP,-,6.3x7,-	
C215	2401-001934	C-AL;220uF,20%,6.3V,GP,-,6.3x7,-	
C217	2401-001934	C-AL;220uF,20%,6.3V,GP,-,6.3x7,-	
C304	2401-001934	C-AL;220uF,20%,6.3V,GP,-,6.3x7,-	
C101	2401-001934	C-AL;220uF,20%,6.3V,GP,-,6.3x7,-	
C107	2401-001934	C-AL;220uF,20%,6.3V,GP,-,6.3x7,-	
C108	2401-001934	C-AL;220uF,20%,6.3V,GP,-,6.3x7,-	
C131	2401-001934	C-AL;220uF,20%,6.3V,GP,-,6.3x7,-	
DL1	2701-000114	INDUCTOR-AXIAL;10UH,10%,2534	
PCB	AH41-00392C	PCB;G3HI-1CD,PENOL, 2LAYER,1 LAYER	
	AH92-01987E	**ASSY PCB-FRONT;MM-J4,-**	
RD4	0402-000157	DIODE-RECTIFIER;1N5402,200V,3A,DO-201AD,	
RD3	0402-000157	DIODE-RECTIFIER;1N5402,200V,3A,DO-201AD,	
RD2	0402-000157	DIODE-RECTIFIER;1N5402,200V,3A,DO-201AD,	
RD1	0402-000157	DIODE-RECTIFIER;1N5402,200V,3A,DO-201AD,	
PC2	2201-002128	C-CERAMIC,DISC;4.7NF,20%,400V,Y5U,BK,15X	
PC1	2201-002128	C-CERAMIC,DISC;4.7NF,20%,400V,Y5U,BK,15X	
UX2	2801-001394	CRYSTAL-UNIT;32.768KHz,20ppm,28-AAY,12.5	
UX1	2802-001174	RESONATOR-CERAMIC;10MHZ,0.5%,BK,8X3.5X3M	
SW1	3405-000101	SWITCH-MICRO;1.6V,1A,70gf,SPST	
UVR1	3406-001050	SWITCH-ROTARY;5V DC,0.5mA,click,12mm	
PF3	3601-000170	FUSE-CARTRIDGE;250V,1.6A,TIME-LAG,GLASS,	
PF4	3601-000282	FUSE;250V,4A,TIME-LAG,GLASS,5.2x20m	
PF2	3601-000318	FUSE-CARTRIDGE;250V,800mA,TIME-LAG,GLASS	
UWA6	3708-001488	CONNECTOR-FPC/FFC/PIC;30P,1.25MM,STRAIGH	
UWA9	3708-001723	CONNECTOR-FPC/FFC/PIC;17P,1.25MM,STRAIGH	
PWA1	3711-000190	CONNECTOR-HEADER;1WALL,2P,1R,7.92MM,STRA	
UWA2	3711-001009	CONNECTOR-HEADER;BOX,5P,1R,2.5mm,ANGLE,S	
PWA2	3711-003113	CONNECTOR-HEADER;BOX,9P,1R,2.5mm,STRAIGH	
HJACK1	3722-000351	JACK-PHONE;11P,3.5PI,AG,BLK,-	
VFD	AH07-00113A	VF DISPLAY;HNA-09MS17T,MM-J4/J6,100*25,1	
PL1	AH27-10001F	COIL-CHOKE;27uH,K,Q30,-,-,DR(6.5*7.5),-,	
PL2	AH27-10001F	COIL-CHOKE;27uH,K,Q30,-,-,DR(6.5*7.5),-,	
CN1	AH39-00108A	LEAD CONNECTOR ASSY;-,5295,51004,2P,80MM	
UEYE1	AH59-60010E	MODULE REMOCON;KSM-913TE5,-,-,25CM,G.T:#	
CAS	AH61-01416A	CASE-BOTTOM;MCD-CM600,PC-ABS,-,-,-,-,PAC	
TAP1	AH65-30013A	CLAMP-CORD;-,-,-,-,-,-	
	AH81-01327T	A/S PART-POWE PCB;MM-J4,POWER PCB ASS'Y,	
	AH81-01327V	A/S PART-FRONT;MM-ZJ6,FRONT PCB ASS'Y,-,	
UD130	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
UD15	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
UD2	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
UD4	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
UD5	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
UD7	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
UD120	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
UD13	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
UD11	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
UD12	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
UD1	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
UD100	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
RD18	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
RD5	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
RD6	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
RD7	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
RD8	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
RD9	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
UQ1	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
UR53	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
UR60	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
UR61	2001-000258	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X3.2M	
UR54	2001-000258	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X3.2M	
UR45	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR48	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR50	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR51	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR58	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR38	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR41	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR42	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR43	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR44	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR206	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR112	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR23	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR24	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR68	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR10	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR100	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR101	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR111	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR64	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
UR55	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	

Location no.	Code no.	Description & Specification	Remarks
UR56	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	
UR63	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	
JW25	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
JW7	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
UR48	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
JW23	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
UR73	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR74	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR75	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR76	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR77	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR78	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR79	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR80	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR72	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR200	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR119	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR118	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR201	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR202	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR203	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR204	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR71	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR81	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR88	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR89	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR90	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR91	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR92	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR93	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR82	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR83	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR84	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR87	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR86	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR85	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
UR94	2007-000300	R-CHIP;10Kohm,5%,1/8W,TP,2012	
UR62	2007-000300	R-CHIP;10Kohm,5%,1/8W,TP,2012	
UR17	2007-000300	R-CHIP;10Kohm,5%,1/8W,TP,2012	
UR15	2007-000300	R-CHIP;10Kohm,5%,1/8W,TP,2012	
UR14	2007-000300	R-CHIP;10Kohm,5%,1/8W,TP,2012	
UR16	2007-000401	R-CHIP;150ohm,5%,1/8W,TP,2012	
UR52	2007-000468	R-CHIP;1Kohm,5%,1/8W,TP,2012	
UR2	2007-000468	R-CHIP;1Kohm,5%,1/8W,TP,2012	
UR115	2007-000468	R-CHIP;1Kohm,5%,1/8W,TP,2012	
UR113	2007-000468	R-CHIP;1Kohm,5%,1/8W,TP,2012	
UR102	2007-000468	R-CHIP;1Kohm,5%,1/8W,TP,2012	
UR1	2007-000468	R-CHIP;1Kohm,5%,1/8W,TP,2012	
UR59	2007-000468	R-CHIP;1Kohm,5%,1/8W,TP,2012	
UR4	2007-000477	R-CHIP;1Mohm,5%,1/8W,TP,2012	
UR18	2007-000493	R-CHIP;2.2Kohm,5%,1/8W,TP,2012	
UR103	2007-000565	R-CHIP;220Kohm,5%,1/8W,TP,2012	
AR8R	2007-000644	R-CHIP;270OHM,5%,1/2W,DA,TP,5025	
AR8L	2007-000644	R-CHIP;270OHM,5%,1/2W,DA,TP,5025	
UR57	2007-000872	R-CHIP;4.7Kohm,5%,1/8W,TP,2012	
UR19	2007-000872	R-CHIP;4.7Kohm,5%,1/8W,TP,2012	
UR25	2007-000941	R-CHIP;47Kohm,5%,1/8W,TP,2012	
UR5	2007-001024	R-CHIP;560Kohm,5%,1/8W,TP,2012	
UR3	2007-001654	R-CHIP;10Mohm,1%,1/8W,TP,2012	
RR12	2008-000135	R-FUSIBLE;1ohm,5%,1/2W,AA,TP,3.3x9mm	
RC1	2201-000161	C-CERAMIC,DISC;10NF,+80-20%,500V,Y5V,TP,	
RC2	2201-000161	C-CERAMIC,DISC;10NF,+80-20%,500V,Y5V,TP,	
UC15	2202-000854	C-CERAMIC,MLC-AXIAL;47nF,30%,50V,Y5R,TP,	
UC10	2203-000979	C-CER,CHIP;47nF,10%,50V,X7R,TP,2012	
UC3	2203-000979	C-CER,CHIP;47nF,10%,50V,X7R,TP,2012	
AC5R	2203-001537	C-CER,CHIP;1nF,10%,50V,X7R,TP,2012	
AC5L	2203-001537	C-CER,CHIP;1nF,10%,50V,X7R,TP,2012	
AC4R	2203-001537	C-CER,CHIP;1nF,10%,50V,X7R,TP,2012	
AC4L	2203-001537	C-CER,CHIP;1nF,10%,50V,X7R,TP,2012	
UC2	2203-001611	C-CER,CHIP;0.022nF,5%,50V,NP0,TP,2012	
UC1	2203-001611	C-CER,CHIP;0.022nF,5%,50V,NP0,TP,2012	
UC7	2401-000459	C-AL;10uF,20%,35V,GP,TP,5.5x7mm,5mm	
UC8	2401-000459	C-AL;10uF,20%,35V,GP,TP,5.5x7mm,5mm	
UC54	2401-000752	C-AL;220nF,20%,50V,GP,BK,3x5,1mm	
UC5	2401-001355	C-AL;470uF,20%,10V,GP,TP,8x11.5mm,5	
UC9	2401-001502	C-AL;47uF,20%,16V,GP,TP,6.3x5,2.5	
UC4	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
UC54	2401-001931	C-AL;220nF,20%,50V,-,TP,4x7mm,5	
UE1	2401-001952	C-AL;4.7uF,20%,50V,GP,TP,5x7mm,5mm	
UC6	2401-001952	C-AL;4.7uF,20%,50V,GP,TP,5x7mm,5mm	
HL1R	2701-000177	INDUCTOR-AXIAL;33UH,10%,2534	
HL1L	2701-000177	INDUCTOR-AXIAL;33UH,10%,2534	
POWER	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
EQ	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
DOWN	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
CD	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
AUX	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
UP	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
TUNER	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
TAPE	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
STOP	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
REC	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
REPEAT	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	

Location no.	Code no.	Description & Specification	Remarks
S.BASS	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
SPEED CON	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST	
PF4*2	3602-000147	FUSE-CLIP;250V,7.5A,30mohm	
PF3*2	3602-000147	FUSE-CLIP;250V,7.5A,30mohm	
PF2*2	3602-000147	FUSE-CLIP;250V,7.5A,30mohm	
UIC1	AH11-00109A	MASK ROM;LC876748C-53H3,MM-J4/J6,-,-,QF	
	AH41-00628C	PCB-FRONT;MM-J5,FR1,1,-,1.6T,329.7*197,-	
	AH92-01988E	**ASSY PCB-MAIN PCB ASSY;MM-J4,MAIN**	
RQ2	0502-000419	TR-POWER;-,PNP,25W,TO-220F,BK,100-200	
AIC1	1201-001385	IC-POWER AMP;7269A,ZIP,11,19.6,DUAL,13,P	
MIC1	1201-001572	IC-PREAMP;2011,SIP,7P,17MIL,SINGLE,47,PL	
RIC1	1203-000242	IC-POSI.FIXED REG.;7812,TO-220,3P,-,PLAS	
FIC1	1204-001621	IC-VOLUME/TONE CONT.;LC75341,DIP,24P,300	
RR1	2003-000556	R-METAL OXIDE(S);2.2ohm,5%,2W,AA,TP,4x12	
RR2	2003-000767	R-METAL OXIDE(S);680ohm,5%,2W,AA,TP,4x12	
RC2	2401-001067	C-AL;3300uF,20%,42V,GP,-,18x35.5,7.	
RC4	2401-001942	C-AL;3300uF,20%,35V,GP,BK,18x35.5mm	
FWA2	3708-000411	CONNECTOR-FPC/FFC/PIC;12P,1.25MM,STRAIGH	
CWA1	3708-000411	CONNECTOR-FPC/FFC/PIC;12P,1.25MM,STRAIGH	
FWA4	3708-001577	CONNECTOR-FPC/FFC/PIC;30P,1.25MM,STRAIGH	
JWA1	3711-001062	CONNECTOR-HEADER;BOX,6P,1R,2mm,STRAIGHT,	
SPK JACK	3716-001191	TERMINAL-BLOCK;SOLDER,4P,9.1MM,60V,7A	
MJCK1	3722-000351	JACK-PHONE;11P,3.5PI,AG,BLK,-	
AUX JACK	3722-000377	JACK-PIN;4P/2C,3.5mm,SN,BLK,#16~22	
JT1	AH26-00227A	TRANS RF;-,-,-,-,-,105KHZ,7.6 X 7.6,-	
JLF1R	AH27-10001T	COIL CHOKE;875-101-105K,MAX-S530,18MH##1	
JLF1L	AH27-10001T	COIL CHOKE;875-101-105K,MAX-S530,18MH##1	
AL3R	AH27-90001A	COIL-SPRING;-,2.2UH,-,-,-,SPRING,-,-,-,-	
AL3L	AH27-90001A	COIL-SPRING;-,2.2UH,-,-,-,SPRING,-,-,-,-	
AL2R	AH27-90001A	COIL-SPRING;-,2.2UH,-,-,-,SPRING,-,-,-,-	
AL2L	AH27-90001A	COIL-SPRING;-,2.2UH,-,-,-,SPRING,-,-,-,-	
FWA1	AH39-00103A	LEAD CONNECTOR ASSY;-,5295,51004,8P,210M	
RWA1	AH39-00295B	CONNECT WIRE;MM-ZJ6/J4,-,-,9P,-,-,-,5100	
AWA1	AH39-00352T	LEAD CONNECTOR ASSY;MM-B7,1007#22,-,5P,2	
GND7	AH39-50001K	WIRE HARNESS;RING,1007#24,140MM,BLK	
GDN7	AH61-40022A	STUD-TAP;-,T0.5,BT2,-,-,-,-	
GDN2	AH61-40022A	STUD-TAP;-,T0.5,BT2,-,-,-,-	
AIC1-1	AH62-00114A	HEAT SINK-,M;MM-J6,AL EXTR,-,-,-,-,-,-	
GND3	AH65-30013A	CLAMP-CORD;-,-,-,-,-,-	
AD4	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
AD33	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
AD32	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
AD31	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
AD30	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
RD16	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
JD1	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
AD8	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
AD7	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
AD5	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
AD13	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
AD12	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
AD11	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
AD10	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
AD1	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
AD3	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
AD25	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
AD20	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
AD15	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
AD14	0401-000101	DIODE-SWITCHING;1N4148,75V,150MA,DO-35,T	
RD11	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
RD12	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
RD13	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
RD14	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
RD17	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
RD10	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
AD1R	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
CD1	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
CD2	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
D1L	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
RD1	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
ZD02	0403-000354	DIODE-ZENER;UZ5.1B,4.8-5.4V,500MW,DO-35,	
ZD01L	0403-000372	DIODE-ZENER;UZ9.1BM,8.7-9.4V,500MW,DO-35	
RZD1	0403-000389	DIODE-ZENER;UZP30B,28-33V,1000MW,DO-41,T	
RZD3	0403-000393	DIODE-ZENER;UZP5.1B,4.8-5.4V,1000MW,DO-4	
FZD1	0403-000399	DIODE-ZENER;UZP9.1B,8.5-9.6V,1000MW,DO-4	
RZD4	0403-001010	DIODE-ZENER;UZ5.6BCC,5.64-5.88V,500MW,DO	
JQ4	0501-000010	TR-SMALL SIGNAL;KSC1008,NPN,800mW,TO-92,	
AQ6	0501-000010	TR-SMALL SIGNAL;KSC1008,NPN,800mW,TO-92,	
AQ5	0501-000010	TR-SMALL SIGNAL;KSC1008,NPN,800mW,TO-92,	
AQ3	0501-000010	TR-SMALL SIGNAL;KSC1008,NPN,800mW,TO-92,	
JQ3	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
CQ7	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
CQ5	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
CQ2	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
CQ1	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-	
RQ5	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
FQ1R	0501-000407	TR-SMALL SIGNAL;KSD471A-Y,NPN,800mW,TO-9	
FQ1L	0501-000407	TR-SMALL SIGNAL;KSD471A-Y,NPN,800mW,TO-9	
AQ1R	0501-000407	TR-SMALL SIGNAL;KSD471A-Y,NPN,800mW,TO-9	
AQ1L	0501-000407	TR-SMALL SIGNAL;KSD471A-Y,NPN,800mW,TO-9	
RQ6	0501-000422	TR-SMALL SIGNAL;KTA1273,PNP,-30V,-30V,-2	
RQ3	0501-000422	TR-SMALL SIGNAL;KTA1273,PNP,-30V,-30V,-2	

Location no.	Code no.	Description & Specification	Remarks
JQ2	0501-000422	TR-SMALL SIGNAL;KTA1273,PNP,-30V,-30V,-2	
CQ4	0501-000422	TR-SMALL SIGNAL;KTA1273,PNP,-30V,-30V,-2	
CQ3	0501-000422	TR-SMALL SIGNAL;KTA1273,PNP,-30V,-30V,-2	
JQ2R	0501-002184	TR-SMALL SIGNAL;KTD1304,NPN,200mW,SOT-23	
JQ2L	0501-002184	TR-SMALL SIGNAL;KTD1304,NPN,200mW,SOT-23	
JQ1R	0501-002184	TR-SMALL SIGNAL;KTD1304,NPN,200mW,SOT-23	
JQ1L	0501-002184	TR-SMALL SIGNAL;KTD1304,NPN,200mW,SOT-23	
CQ8	0501-002408	TR-SMALL SIGNAL;MPS751,PNP,625MW,T0-92,-	
CQ6	0501-002408	TR-SMALL SIGNAL;MPS751,PNP,625MW,T0-92,-	
RQ4	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K/22K,TO-	
AQ7	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K/22K,TO-	
AQ4	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K/22K,TO-	
AQ1	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K/22K,TO-	
FQ1	0504-000145	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-	
AQ2	0504-000145	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-	
JQ1	0504-000156	TR-DIGITAL;KSR2103,PNP,200MW,22K/22K,SOT	
FIC2	1201-000461	IC-OP AMP;4558,SOP,8P,150MIL,DUAL,20V/mV	
JIC1	1201-001899	IC-PREAMP;HA12237F,QFP,40P,7X7MM,-,-,PLA	
JR33R	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
JR33L	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR13	2001-000016	R-CARBON(S);1OHM,5%,1/2W,AA,TP,2.4X6.4MM	
PR1	2001-000022	R-CARBON(S);33OHM,5%,1/2W,AA,TP,2.4X6.4M	
PR3	2001-000027	R-CARBON;100OHM,5%,1/4W,AA,TP,2.4X6.4MM	
PR2	2001-000027	R-CARBON;100OHM,5%,1/4W,AA,TP,2.4X6.4MM	
RR10	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.4X6.4	
RR9	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.4X6.4	
CR9	2001-000034	R-CARBON;220OHM,5%,1/4W,AA,TP,2.4X6.4MM	
AR19	2001-000042	R-CARBON;1KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
AR13	2001-000052	R-CARBON(S);3.3KOHM,5%,1/2W,AA,TP,2.4X6.	
CR20	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
JR13	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
CR10	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
JR15	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR9L	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
ER001	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
CR7	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
MR11L	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
JR1R	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
JR1L	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
CR18	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
JR10	2001-000435	R-CARBON;1MOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR1	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
CR21	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
AR3L	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
AR2L	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
JR13L	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
JR13R	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
MR12R	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
FR11R	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR11L	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR3	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
JR14	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
JR1	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR15	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
MR3	2001-000554	R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR5L	2001-000563	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR7	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X3.2M	
RR6	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X3.2M	
RR8	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
CR16	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
CR15	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
CR12	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
CR11	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
AR14	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
AR6R	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR6L	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
JR18	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
JR12	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
JR11	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR18	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR17	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR4L	2001-000864	R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
MR8R	2001-000977	R-CARBON;8.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
MR8L	2001-000977	R-CARBON;8.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
JR6	2001-001077	R-CARBON(S);150OHM,5%,1/2W,AA,TP,2.4X6.4	
JR8	2001-001096	R-CARBON(S);2.2OHM,5%,1/2W,AA,TP,2.4X6.4	
RR5	2001-001138	R-CARBON(S);390OHM,5%,1/2W,AA,TP,2.4X6.4	
RR14	2001-001146	R-CARBON(S);4.7OHM,5%,1/2W,AA,TP,2.4X6.4	
AR7R	2001-001146	R-CARBON(S);4.7OHM,5%,1/2W,AA,TP,2.4X6.4	
AR7L	2001-001146	R-CARBON(S);4.7OHM,5%,1/2W,AA,TP,2.4X6.4	
AR9L	2001-001163	R-CARBON(S);560OHM,5%,1/2W,AA,TP,2.4X6.4	
AR9R	2001-001163	R-CARBON(S);560OHM,5%,1/2W,AA,TP,2.4X6.4	
RR4	2001-001178	R-CARBON(S);680OHM,5%,1/2W,AA,TP,2.4X6.4	
CR14	2001-001178	R-CARBON(S);680OHM,5%,1/2W,AA,TP,2.4X6.4	
CR13	2001-001178	R-CARBON(S);680OHM,5%,1/2W,AA,TP,2.4X6.4	
CR8	2007-000001	R-CHIP;68Kohm,5%,1/8W,TP,2012	
JW108	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
JW106	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
JW105	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
JW104	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
JW101	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	
JR6R	2007-000267	R-CHIP;1.8Kohm,5%,1/8W,TP,2012	
JR6L	2007-000267	R-CHIP;1.8Kohm,5%,1/8W,TP,2012	

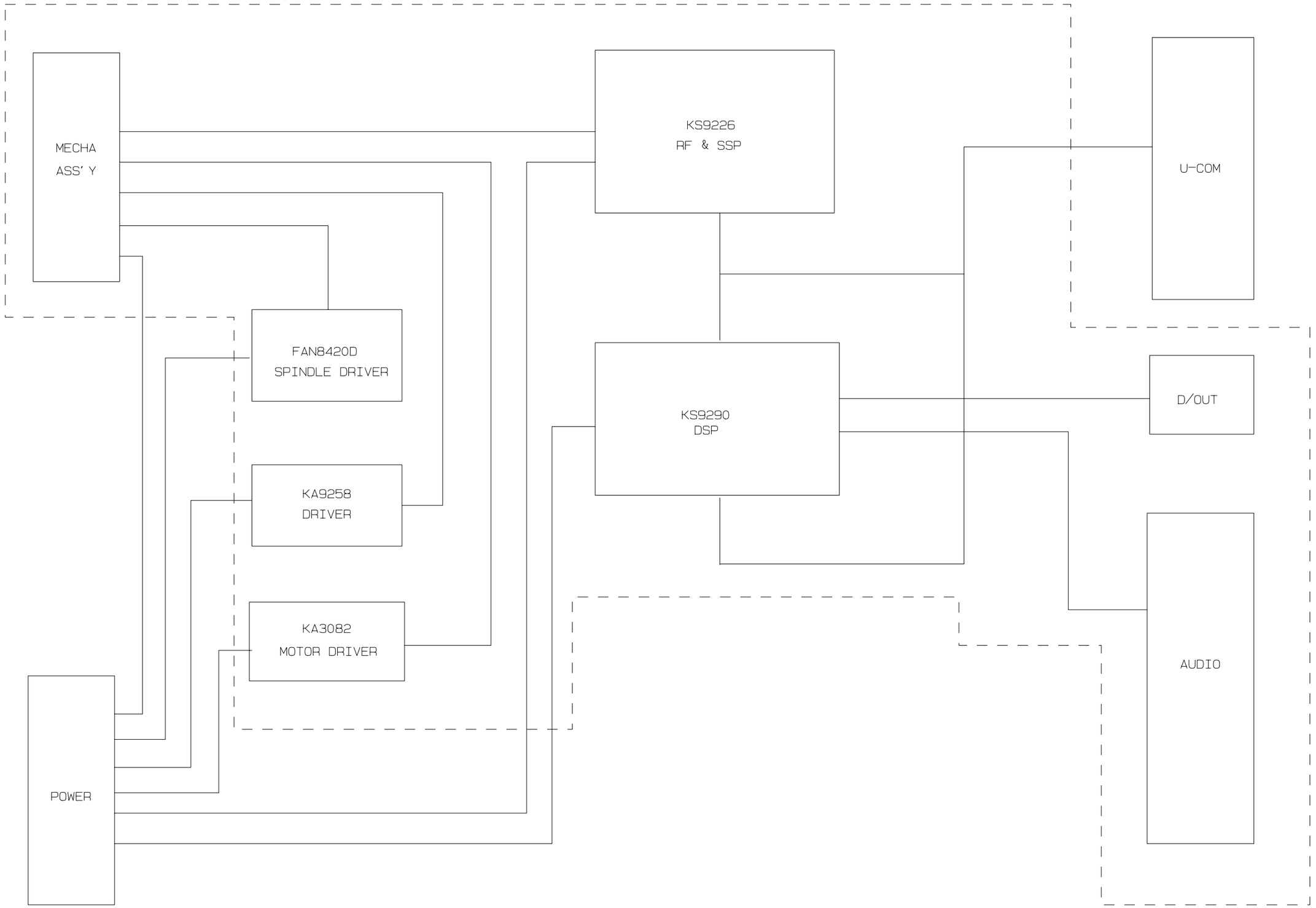
Location no.	Code no.	Description & Specification	Remarks
JR7R	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
JR7L	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
AR9	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
AR10	2007-000282	R-CHIP;100Kohm,5%,1/8W,TP,2012	
CR18A	2007-000290	R-CHIP;100ohm,5%,1/8W,TP,2012	
JR12L	2007-000300	R-CHIP;10Kohm,5%,1/8W,TP,2012	
JR12R	2007-000300	R-CHIP;10Kohm,5%,1/8W,TP,2012	
JR16	2007-000300	R-CHIP;10Kohm,5%,1/8W,TP,2012	
JR7	2007-000300	R-CHIP;10Kohm,5%,1/8W,TP,2012	
FR9R	2007-000300	R-CHIP;10Kohm,5%,1/8W,TP,2012	
AR1L	2007-000300	R-CHIP;10Kohm,5%,1/8W,TP,2012	
AR1R	2007-000300	R-CHIP;10Kohm,5%,1/8W,TP,2012	
CR1	2007-000300	R-CHIP;10Kohm,5%,1/8W,TP,2012	
CR2	2007-000300	R-CHIP;10Kohm,5%,1/8W,TP,2012	
MR6	2007-000338	R-CHIP;120Kohm,5%,1/8W,TP,2012	
FR10L	2007-000355	R-CHIP;12Kohm,5%,1/8W,TP,2012	
FR10R	2007-000355	R-CHIP;12Kohm,5%,1/8W,TP,2012	
JR101	2007-000395	R-CHIP;150Kohm,5%,1/8W,TP,2012	
JR100	2007-000395	R-CHIP;150Kohm,5%,1/8W,TP,2012	
MR9R	2007-000409	R-CHIP;15Kohm,5%,1/8W,TP,2012	
MR9L	2007-000409	R-CHIP;15Kohm,5%,1/8W,TP,2012	
FR4R	2007-000409	R-CHIP;15Kohm,5%,1/8W,TP,2012	
FR4L	2007-000409	R-CHIP;15Kohm,5%,1/8W,TP,2012	
CR5	2007-000409	R-CHIP;15Kohm,5%,1/8W,TP,2012	
CR4	2007-000409	R-CHIP;15Kohm,5%,1/8W,TP,2012	
FR2R	2007-000457	R-CHIP;18Kohm,5%,1/8W,TP,2012	
FR2L	2007-000457	R-CHIP;18Kohm,5%,1/8W,TP,2012	
MR10L	2007-000468	R-CHIP;1Kohm,5%,1/8W,TP,2012	
MR10R	2007-000468	R-CHIP;1Kohm,5%,1/8W,TP,2012	
MR11R	2007-000468	R-CHIP;1Kohm,5%,1/8W,TP,2012	
MR5	2007-000468	R-CHIP;1Kohm,5%,1/8W,TP,2012	
JR9	2007-000468	R-CHIP;1Kohm,5%,1/8W,TP,2012	
FR11	2007-000468	R-CHIP;1Kohm,5%,1/8W,TP,2012	
FR12	2007-000468	R-CHIP;1Kohm,5%,1/8W,TP,2012	
FR13	2007-000468	R-CHIP;1Kohm,5%,1/8W,TP,2012	
JR21	2007-000468	R-CHIP;1Kohm,5%,1/8W,TP,2012	
JR5	2007-000493	R-CHIP;2.2Kohm,5%,1/8W,TP,2012	
MR12L	2007-000493	R-CHIP;2.2Kohm,5%,1/8W,TP,2012	
MR2	2007-000493	R-CHIP;2.2Kohm,5%,1/8W,TP,2012	
AR2	2007-000493	R-CHIP;2.2Kohm,5%,1/8W,TP,2012	
AR2R	2007-000493	R-CHIP;2.2Kohm,5%,1/8W,TP,2012	
AR3R	2007-000493	R-CHIP;2.2Kohm,5%,1/8W,TP,2012	
MR4	2007-000493	R-CHIP;2.2Kohm,5%,1/8W,TP,2012	
AR6	2007-000546	R-CHIP;20Kohm,5%,1/8W,TP,2012	
MR7	2007-000572	R-CHIP;220ohm,5%,1/8W,TP,2012	
CR25	2007-000586	R-CHIP;22Kohm,5%,1/8W,TP,2012	
CR26	2007-000586	R-CHIP;22Kohm,5%,1/8W,TP,2012	
FR3L	2007-000586	R-CHIP;22Kohm,5%,1/8W,TP,2012	
FR3R	2007-000586	R-CHIP;22Kohm,5%,1/8W,TP,2012	
JR2	2007-000586	R-CHIP;22Kohm,5%,1/8W,TP,2012	
AR1	2007-000586	R-CHIP;22Kohm,5%,1/8W,TP,2012	
AR11	2007-000586	R-CHIP;22Kohm,5%,1/8W,TP,2012	
AR12	2007-000586	R-CHIP;22Kohm,5%,1/8W,TP,2012	
AR4	2007-000586	R-CHIP;22Kohm,5%,1/8W,TP,2012	
AR7	2007-000586	R-CHIP;22Kohm,5%,1/8W,TP,2012	
AR5R	2007-000635	R-CHIP;270Kohm,5%,1/8W,TP,2012	
JR3	2007-000686	R-CHIP;3.3Kohm,5%,1/8W,TP,2012	
JR10R	2007-000710	R-CHIP;3.9Kohm,5%,1/8W,TP,2012	
JR10L	2007-000710	R-CHIP;3.9Kohm,5%,1/8W,TP,2012	
FR8R	2007-000710	R-CHIP;3.9Kohm,5%,1/8W,TP,2012	
FR8L	2007-000710	R-CHIP;3.9Kohm,5%,1/8W,TP,2012	
JR32R	2007-000774	R-CHIP;33Kohm,5%,1/8W,TP,2012	
JR32L	2007-000774	R-CHIP;33Kohm,5%,1/8W,TP,2012	
CR6	2007-000774	R-CHIP;33Kohm,5%,1/8W,TP,2012	
CR3	2007-000774	R-CHIP;33Kohm,5%,1/8W,TP,2012	
AR5	2007-000830	R-CHIP;39Kohm,5%,1/8W,TP,2012	
RR30	2007-000872	R-CHIP;4.7Kohm,5%,1/8W,TP,2012	
JR31R	2007-000872	R-CHIP;4.7Kohm,5%,1/8W,TP,2012	
JR31L	2007-000872	R-CHIP;4.7Kohm,5%,1/8W,TP,2012	
JR30R	2007-000872	R-CHIP;4.7Kohm,5%,1/8W,TP,2012	
JR30L	2007-000872	R-CHIP;4.7Kohm,5%,1/8W,TP,2012	
FR5R	2007-000872	R-CHIP;4.7Kohm,5%,1/8W,TP,2012	
FR5L	2007-000872	R-CHIP;4.7Kohm,5%,1/8W,TP,2012	
JR17	2007-000941	R-CHIP;47Kohm,5%,1/8W,TP,2012	
MR1	2007-001024	R-CHIP;560Kohm,5%,1/8W,TP,2012	
AR4R	2007-001039	R-CHIP;56Kohm,5%,1/8W,TP,2012	
JR5R	2007-001071	R-CHIP;6.8Kohm,5%,1/8W,TP,2012	
JR5L	2007-001071	R-CHIP;6.8Kohm,5%,1/8W,TP,2012	
AR3	2007-001111	R-CHIP;680Kohm,1%,1/10W,TP,1608	
FR1R	2007-001177	R-CHIP;8.2Kohm,5%,1/8W,TP,2012	
FR1L	2007-001177	R-CHIP;8.2Kohm,5%,1/8W,TP,2012	
CR15A	2007-001208	R-CHIP;82Kohm,5%,1/8W,TP,2012	
CR17	2007-001208	R-CHIP;82Kohm,5%,1/8W,TP,2012	
CVR1	2103-000341	VR-SEMI;2Kohm,30%,1/10W,TOP	
PC7	2201-000532	C-CERAMIC,DISC;4.7NF,10%,50V,Y5P,TP,8X3.	
PC2	2201-000565	C-CERAMIC,DISC;47nF,+80-20%,-,-,12.5x4m	
AC8R	2201-000565	C-CERAMIC,DISC;47nF,+80-20%,-,-,12.5x4m	
AC8L	2201-000565	C-CERAMIC,DISC;47nF,+80-20%,-,-,12.5x4m	
JC4L	2201-000783	C-CERAMIC,DISC;100NF,+80-20%,50V,Y5V,TP,	
JC4R	2201-000783	C-CERAMIC,DISC;100NF,+80-20%,50V,Y5V,TP,	
AC113	2202-000780	C-CERAMIC,MLC-AXIAL;100nF,+80-20%,50V,Y5	
JC6R	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
AC112	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
AC111	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
AC110	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
AC7R	2202-000817	C-CERAMIC,MLC-AXIAL;4.7nF,20%,16V,Y5R,TP	
AC7L	2202-000817	C-CERAMIC,MLC-AXIAL;4.7nF,20%,16V,Y5R,TP	
AC6R	2202-000817	C-CERAMIC,MLC-AXIAL;4.7nF,20%,16V,Y5R,TP	
AC6L	2202-000817	C-CERAMIC,MLC-AXIAL;4.7nF,20%,16V,Y5R,TP	
EC1R	2203-000239	C-CER,CHIP;0.1NF,5%,50V,C0G,TP,2012	
EC1L	2203-000239	C-CER,CHIP;0.1NF,5%,50V,C0G,TP,2012	
JC6L	2203-000260	C-CER,CHIP;10nF,10%,50V,X7R,TP,2012	
JC7R	2203-000323	C-CER,CHIP;12nF,10%,50V,X7R,TP,2012,-	
JC7L	2203-000323	C-CER,CHIP;12nF,10%,50V,X7R,TP,2012,-	
MC7R	2203-000408	C-CER,CHIP;0.18NF,5%,50V,C0G,TP,2012	
MC7L	2203-000408	C-CER,CHIP;0.18NF,5%,50V,C0G,TP,2012	
JC11	2203-000595	C-CER,CHIP;0.22NF,5%,50V,C0G,TP,2012	
JC10	2203-000595	C-CER,CHIP;0.22NF,5%,50V,C0G,TP,2012	
FC9	2203-000595	C-CER,CHIP;0.22NF,5%,50V,C0G,TP,2012	
FC1R	2203-000595	C-CER,CHIP;0.22NF,5%,50V,C0G,TP,2012	
FC1L	2203-000595	C-CER,CHIP;0.22NF,5%,50V,C0G,TP,2012	
FC11	2203-000595	C-CER,CHIP;0.22NF,5%,50V,C0G,TP,2012	
FC10	2203-000595	C-CER,CHIP;0.22NF,5%,50V,C0G,TP,2012	
MC14	2203-000953	C-CER,CHIP;0.47NF,5%,50V,C0G,TP,2012	
MC9	2203-000979	C-CER,CHIP;47nF,10%,50V,X7R,TP,2012	
JC1L	2203-001518	C-CER,CHIP;1.8nF,10%,50V,X7R,TP,2012,-	
JC1R	2203-001518	C-CER,CHIP;1.8nF,10%,50V,X7R,TP,2012,-	
JC20R	2203-001537	C-CER,CHIP;1nF,10%,50V,X7R,TP,2012	
JC20L	2203-001537	C-CER,CHIP;1nF,10%,50V,X7R,TP,2012	
AC2R	2203-001537	C-CER,CHIP;1nF,10%,50V,X7R,TP,2012	
AC2L	2203-001537	C-CER,CHIP;1nF,10%,50V,X7R,TP,2012	
MC8R	2203-001646	C-CER,CHIP;0.003NF,0.5PF,50V,NPO,TP,2012	
MC8L	2203-001646	C-CER,CHIP;0.003NF,0.5PF,50V,NPO,TP,2012	
FC6R	2301-000375	C-FILM,LEAD-PEF;100nF,5%,50V,TP,11x12.5x	
FC6L	2301-000375	C-FILM,LEAD-PEF;100nF,5%,50V,TP,11x12.5x	
FC5R	2301-000375	C-FILM,LEAD-PEF;100nF,5%,50V,TP,11x12.5x	
FC5L	2301-000375	C-FILM,LEAD-PEF;100nF,5%,50V,TP,11x12.5x	
AC12R	2301-000375	C-FILM,LEAD-PEF;100nF,5%,50V,TP,11x12.5x	
AC12L	2301-000375	C-FILM,LEAD-PEF;100nF,5%,50V,TP,11x12.5x	
JC3R	2301-000379	C-FILM,LEAD-PEF;10nF,10%,50V,TP,6x12x3.5	
JC3L	2301-000379	C-FILM,LEAD-PEF;10nF,10%,50V,TP,6x12x3.5	
JC7	2301-000390	C-FILM,LEAD-PEF;15nF,10%,50V,TP,7x12x3.5	
JC6	2301-000404	C-FILM,LEAD-PEF;2.2nF,10%,50V,TP,5.5x12x	
JC9	2301-000407	C-FILM,LEAD-PEF;2.7nF,10%,50V,TP,5.5x12x	
FC4R	2301-000407	C-FILM,LEAD-PEF;2.7nF,10%,50V,TP,5.5x12x	
FC4L	2301-000407	C-FILM,LEAD-PEF;2.7nF,10%,50V,TP,5.5x12x	
RC10	2401-000240	C-AL;100uF,20%,10V,GP,TP,5x11,5	
PC6	2401-000303	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
RC11	2401-000325	C-AL;100uF,20%,35V,GP,-,8x11.5,3.5m	
RC8	2401-000357	C-AL;100uF,20%,50V,GP,-,8x11.5,3.5m	
MC3	2401-000438	C-AL;10UF,20%,25V,GP,-,5X11,5	
FC1	2401-000438	C-AL;10UF,20%,25V,GP,-,5X11,5	
AC6	2401-000438	C-AL;10UF,20%,25V,GP,-,5X11,5	
AC1	2401-000438	C-AL;10UF,20%,25V,GP,-,5X11,5	
RC7	2401-000475	C-AL;10uF,20%,50V,GP,TP,5x11mm,5mm	
FC8L	2401-000649	C-AL;2.2uF,20%,50V,BP,TP,5x11,5	
FC8R	2401-000649	C-AL;2.2uF,20%,50V,BP,TP,5x11,5	
RC5	2401-000830	C-AL;220uF,20%,25V,GP,TP,8x11.5,5	
MC10	2401-000830	C-AL;220uF,20%,25V,GP,TP,8x11.5,5	
FC7	2401-000907	C-AL;22uF,20%,16V,GP,TP,5x11mm,5mm	
AC2	2401-000970	C-AL;22uF,20%,50V,WT,TP,5x11,5	
MC4	2401-001019	C-AL;3.3uF,20%,50V,GP,TP,4x7mm,5mm	
MC5	2401-001511	C-AL;47uF,20%,16V,GP,TP,6x7mm,5mm	
AC50	2401-001572	C-AL;47uF,20%,50V,GP,TP,6.3x11mm,5m	
PC3	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
PC1	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
JC8	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
JC3	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
CC1	2401-001893	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
JC8	2401-001895	C-AL;100uF,20%,16V,GP,TP,6.3x11,2.5	
RC6	2401-001912	C-AL;1uF,20%,50V,GP,BK,5x11mm,2mm	
JC8R	2401-001912	C-AL;1uF,20%,50V,GP,BK,5x11mm,2mm	
JC8L	2401-001912	C-AL;1uF,20%,50V,GP,BK,5x11mm,2mm	
JC30	2401-001912	C-AL;1uF,20%,50V,GP,BK,5x11mm,2mm	
AC1L	2401-001912	C-AL;1uF,20%,50V,GP,BK,5x11mm,2mm	
AC1R	2401-001912	C-AL;1uF,20%,50V,GP,BK,5x11mm,2mm	
JC1	2401-001912	C-AL;1uF,20%,50V,GP,BK,5x11mm,2mm	
MC2	2401-001917	C-AL;1uF,20%,50V,GP,TP,4x7mm,5mm	
JC5R	2401-001954	C-AL;4.7uF,20%,50V,GP,TP,5x11mm,5mm	
JC5L	2401-001954	C-AL;4.7uF,20%,50V,GP,TP,5x11mm,5mm	
JC4	2401-001954	C-AL;4.7uF,20%,50V,GP,TP,5x11mm,5mm	
JC2	2401-001954	C-AL;4.7uF,20%,50V,GP,TP,5x11mm,5mm	
AC9	2401-001954	C-AL;4.7uF,20%,50V,GP,TP,5x11mm,5mm	
AC3R	2401-001969	C-AL;470uF,20%,25V,GP,TP,10x12.5,5	
AC3L	2401-001969	C-AL;470uF,20%,25V,GP,TP,10x12.5,5	
AC3	2401-001969	C-AL;470uF,20%,25V,GP,TP,10x12.5,5	
ME03R	2401-001975	C-AL;47uF,20%,16V,GP,TP,5x11mm,5mm	
MC6	2401-001975	C-AL;47uF,20%,16V,GP,TP,5x11mm,5mm	
MC1	2401-001975	C-AL;47uF,20%,16V,GP,TP,5x11mm,5mm	
JC2R	2401-001975	C-AL;47uF,20%,16V,GP,TP,5x11mm,5mm	
JC2L	2401-001975	C-AL;47uF,20%,16V,GP,TP,5x11mm,5mm	
MC12R	2401-002180	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	
MC13L	2401-002180	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	
MC13R	2401-002180	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	
JC9L	2401-002180	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	
MC12L	2401-002180	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	

Location no.	Code no.	Description & Specification	Remarks
MC11R	2401-002180	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	
MC11L	2401-002180	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	
JC9R	2401-002180	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	
FC3R	2401-002180	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	
AC4	2401-002180	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	
FC11L	2401-002180	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	
FC11R	2401-002180	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	
FC12L	2401-002180	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	
FC12R	2401-002180	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	
FC2L	2401-002180	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	
FC2R	2401-002180	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	
FC3L	2401-002180	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	
JL1	2701-000298	INDUCTOR-AXIAL;470uH,10%,4298	
RIC2	AC14-12001G	IC;KA78L05,T,-	
	AH41-00627A	PCB MAIN;MM-J4/J6,FR1,1,-,1.6T,197*247,	
	AH97-01246A	**ASSY-CA'DECK;-,MM-J4,ASSY CA'DECK**	
	6002-000398	SCREW-TAPPING;BH,+,2,M3,L6,ZPC(YEL),SWCH	
	AH39-00360B	LEAD CONNECTOR;MM-J6,1533#28,-,6P,200MM,	
	AH61-01533A	BRACKET-DECK;MM-J6,CU PLATE 0.4T,-,-,-,-	
	AH61-01559A	HOLDER-DECK;MM-J4,ABS 94HB,-,-,-,-,-	
	AH59-01267A	**DECK-CASSETTE;CMAL2Z225A,MM-J6,-,-,DC12V**	

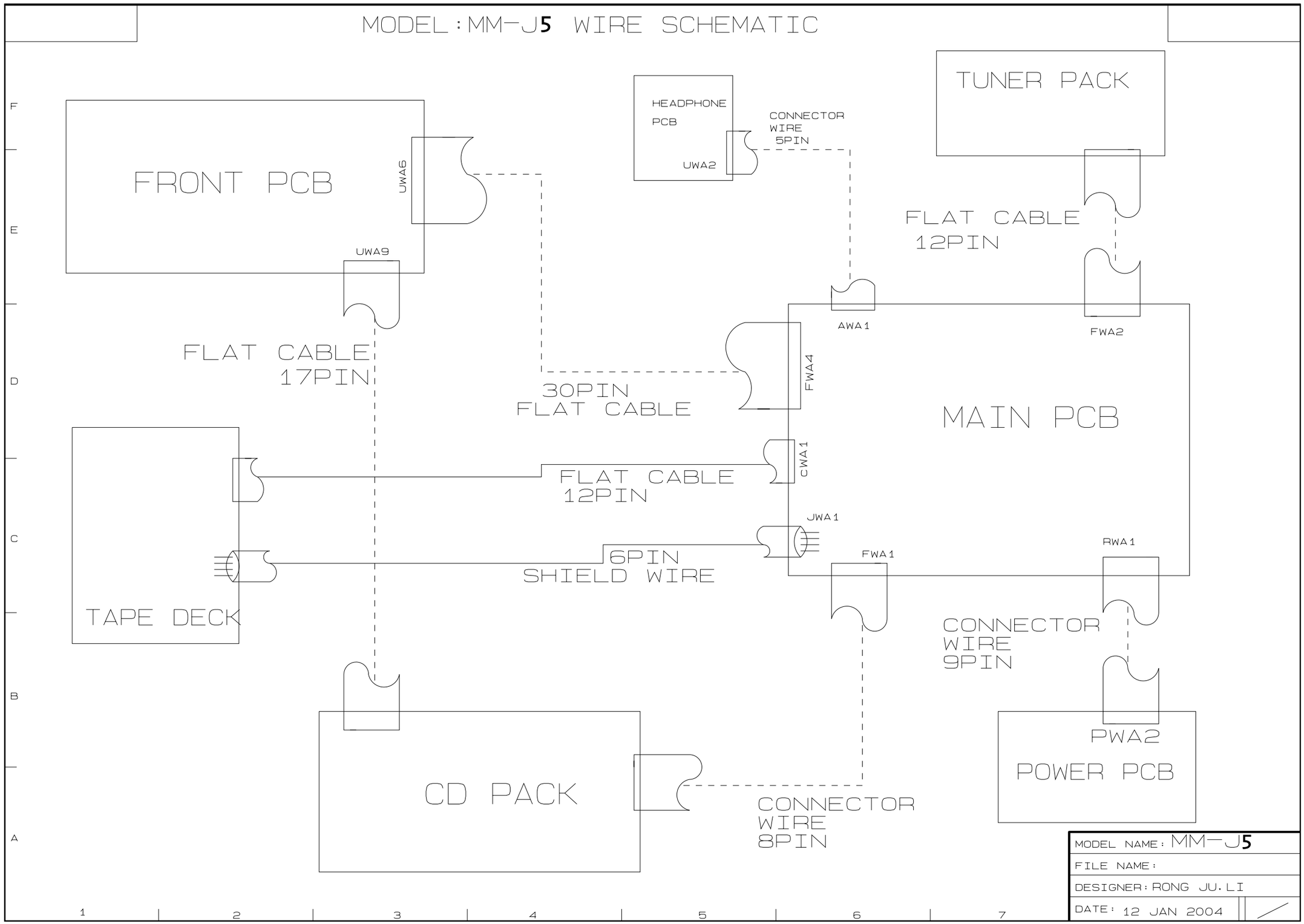
Location no.	Code no.	Description & Specification	Remarks

4. Block Diagram

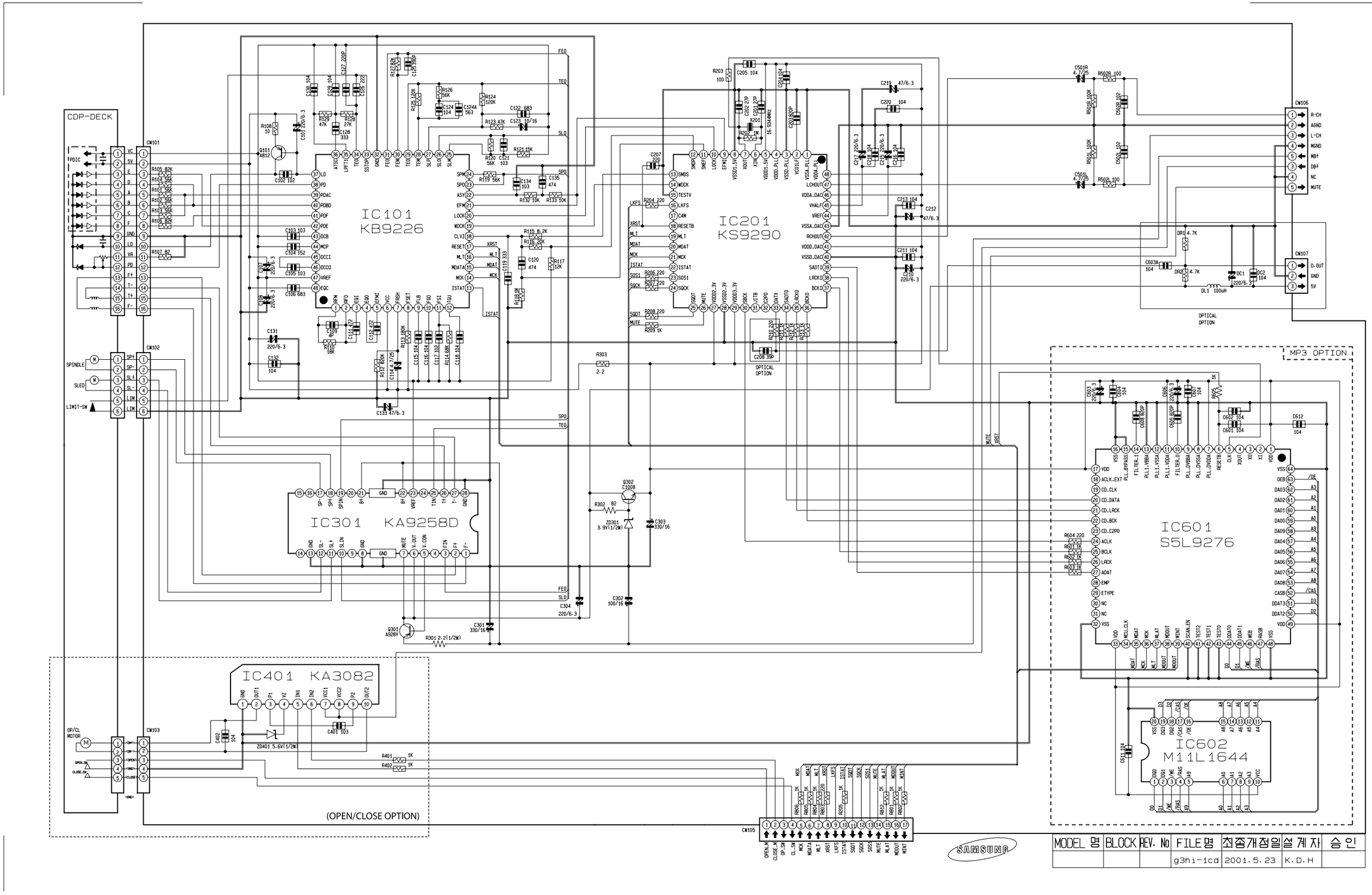
4-1 CD Part

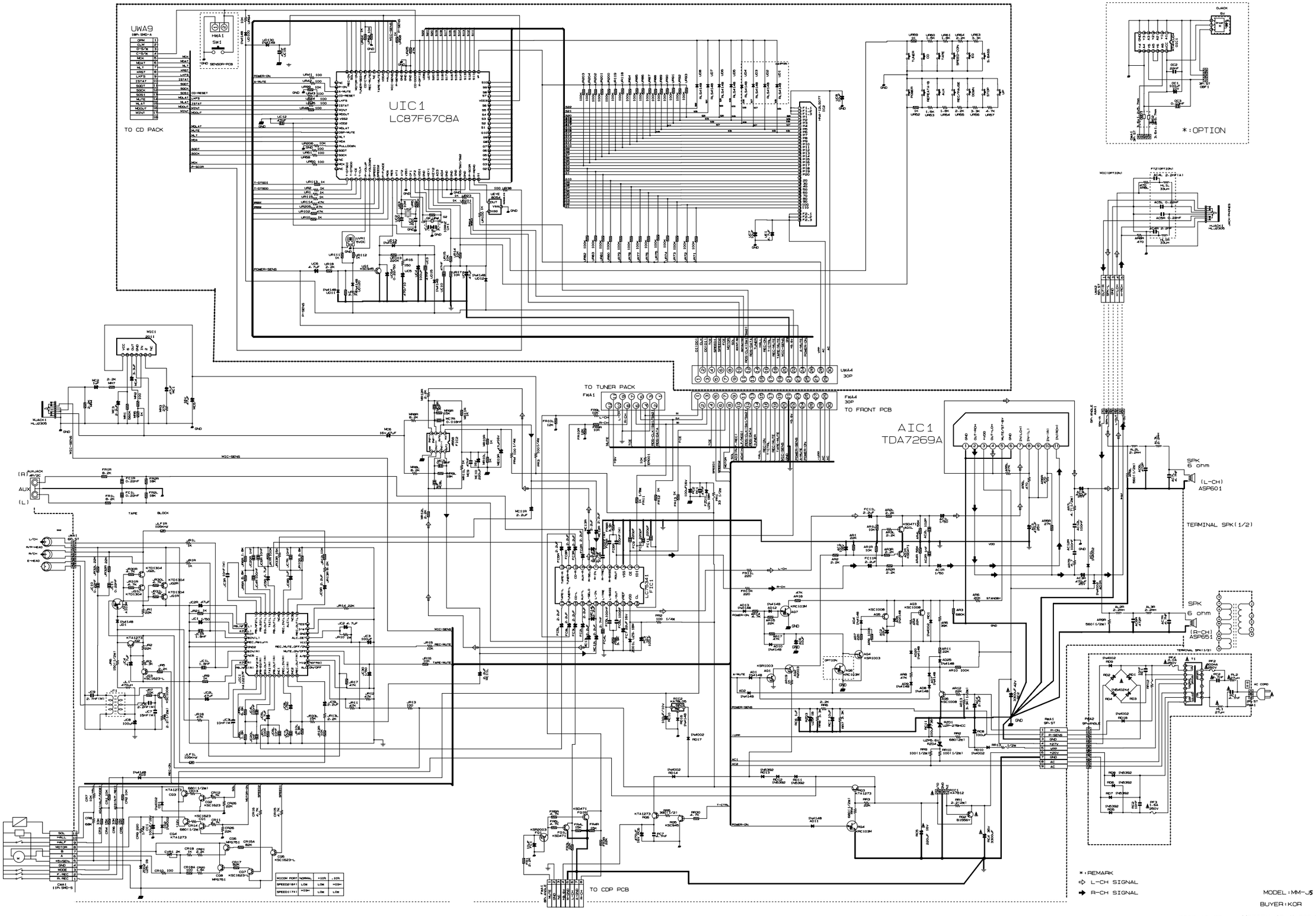


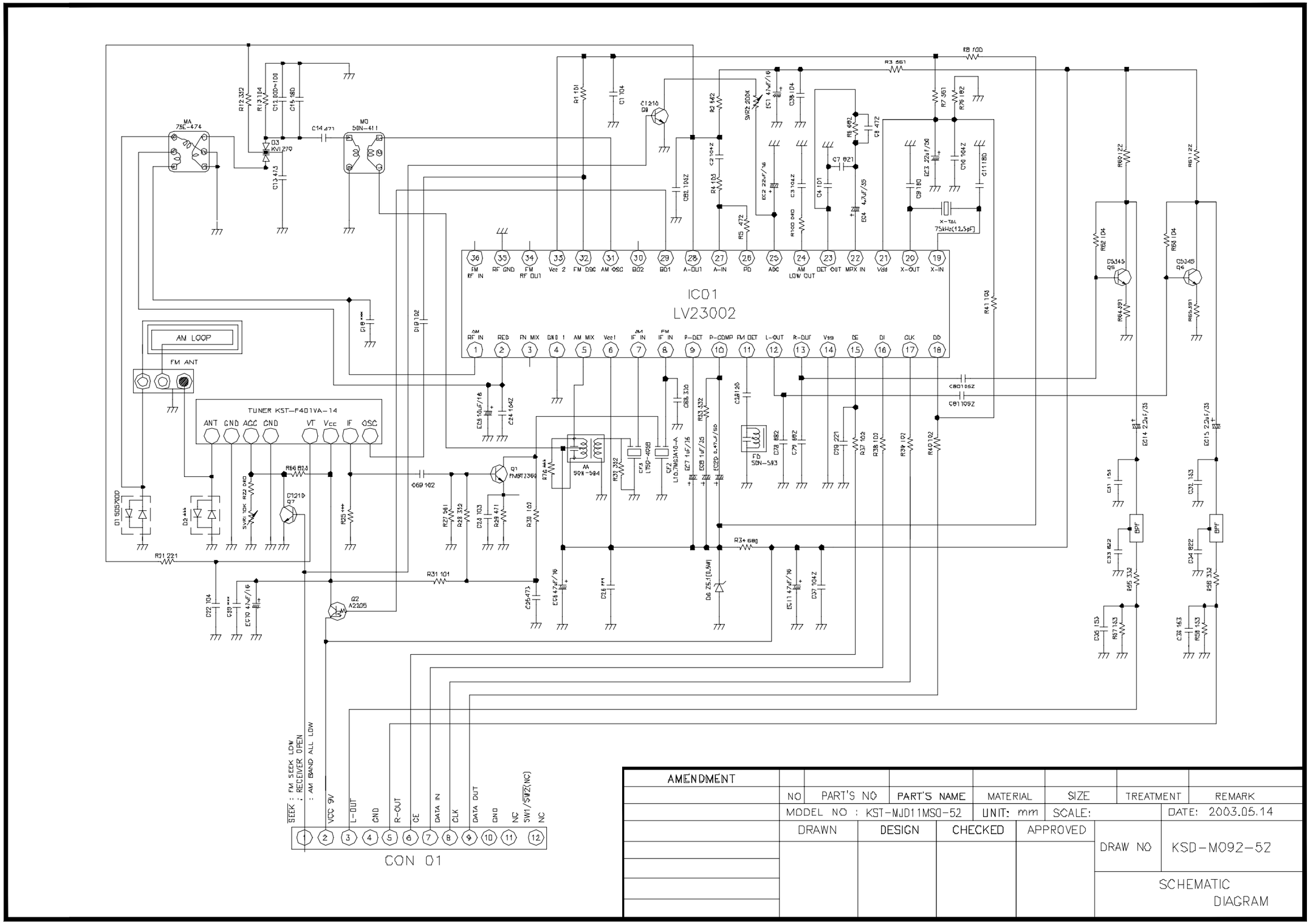
5. Wiring Diagram



6-1 CD Part


CDP-DECK
IC101
KB9226
IC201
KS9290
IC301 KA9258D
IC401 KA3082
IC601
S5L9276
IC602
M11L1644
MP3 OPTION
OPTICAL OPTION
OPTICAL OPTION
(OPEN/CLOSE OPTION)
SPINDLE
SLED
LIMIT-SW
OP/CL MOTOR
MODEL 명
BLOCK
REV. No
FILE명
g3hi-1cd
최종개정일
2001.5.23
설 계 자
K.D.H
승 인
SAMSUNG


UIC1
LC87F67C8A
AIC1
TDA7269A
TO TUNER PACK
TO FRONT PCB
TO CDP PCB
TO CD PACK
SPK
6 ohm
(L-CH)
ASP601
(R-CH)
ASP651
TERMINAL SPK(1/2)
*:OPTION
*:REMARK
L-CH SIGNAL
R-CH SIGNAL
MODEL:MM-J5
BUYER:KOR
2003.10.22
MODIFY:12JAN2004



AMENDMENT	NO	PART'S NO	PART'S NAME	MATERIAL	SIZE	TREATMENT	REMARK
	MODEL NO : KST-MJD11MSD-52			UNIT: mm	SCALE:		DATE: 2003.05.14
	DRAWN	DESIGN	CHECKED	APPROVED	DRAW NO	KSD-M092-52	
					SCHEMATIC DIAGRAM		

KWANG SUNG ELECTRONICS CO.,LTD.

MM-J5

SAMSUNG

ELECTRONICS

This Service Manual is a property of Samsung Electronics Co.,Ltd.
Any unauthorized use of Manual can be punished under applicable international and/or domestic law.

© Samsung Electronics Co.,Ltd. MAY. 2004
Printed in Korea
Code no. AH68-01543X